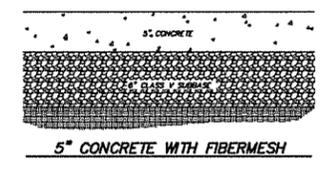


- PAVEMENT**
- (P1) ON SITE EXTERIOR CONCRETE MATERIALS AND CONSTRUCTION METHODS SHALL CONFORM TO CITY OF BISMARCK SPECIFICATIONS EXCEPT AS MODIFIED HEREIN. AIR CONTENT SHALL BE 5% TO 7% STRENGTH AT 28 DAYS SHALL BE 4000 PSI.
 - (P2) 5" CONCRETE WITH FIBERMESH AND 6" CLASS V BASE, SEE DETAIL THIS PAGE.
 - (P3) ISOLATION JOINTS WILL BE REQUIRED ALONG THE BUILDING, STOODS AND ALL FIXED ITEMS. LEAVE JOINT 1/4" LOW AND SEAL. ISOLATION JOINTS SHALL BE SEALED USING A ONE PART POLYURETHANE TYPE SEALANT.
 - (P4) CONSTRUCTION JOINTS WILL BE PLACED TO COINCIDE WITH CONTRACTION JOINT SPACING. CONSTRUCTION JOINT FOR UNREINFORCED CONCRETE SHALL HAVE A MINIMUM 1/2" DIAMETER HALF ROUND KEYWAY OR APPROVED EQUAL. CONSTRUCTION JOINTS FOR REINFORCED CONCRETE SHALL BE 1/2" X 12" DOWELS AT 12 O/C.
 - (P5) JOINT SPACING SHALL TYPICALLY BE SPACED AT 1-1/2 TIMES THE THICKNESS OF THE PAVEMENT (MEASURED IN INCHES) IN FEET (4" S/W EQUALS 4 FOOT SPACING). IN NO CASE SHALL THE JOINT SPACING EXCEED TWO TIMES THE THICKNESS.
 - (P6) SUBGRADE PREPARATION UNDER AREAS TO BE PAVED SHALL BE 6" THICK AND SHALL COMPLY WITH CITY OF BISMARCK SPECIFICATIONS EXCEPT DENSITY SHALL BE 95% OF ASTM D 698.

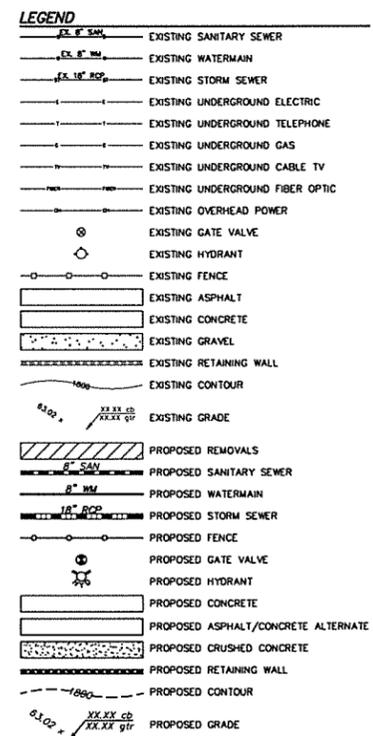


- SANITARY SEWER**
- (S1) MATERIALS AND CONSTRUCTION METHODS SHALL COMPLY WITH CITY OF BISMARCK SPECIFICATIONS. ALL BACKFILL SHALL BE 95% OF STANDARD PROCTOR AT RECOMMENDED MOISTURE CONTENT. TESTING IS CONSIDERED INCIDENTAL.
 - (S2) CONTRACTOR SHALL VERIFY SOIL CONDITION & ELEVATIONS BEFORE CONSTRUCTION OF DRAIN FIELD.
 - (S3) INSTALL SPECIFIED LENGTH OF ADS-ARC 36 SEPTIC LEACHING CHAMBER OR EQUAL. INSTALL APPROXIMATELY 36" DEEP AND MINIMUM OF 10' FROM PROPERTY LINE. VERIFY DEPTH DURING CONSTRUCTION. KEEP TRENCH BOTTOMS LEVEL. LOCATION OF DRAINFIELD MAY BE ADJUSTED OR ROTATED TO PROVIDE MINIMUM GRADE OF TRENCH BOTTOM. INSTALL PER MANUFACTURER'S RECOMMENDATIONS. CONTACT CITY OF BISMARCK, DEPARTMENT OF INSPECTIONS FOR AN INSPECTION PRIOR TO CLOSURE OF SEPTIC TANK PIT AND DRAIN FIELD.
 - (S4) INSTALL 1200 GALLON WORKING CAPACITY SEPTIC TANK. INSTALL 6" SANITARY SEWER PIPE TO SEPTIC TANK AT 0.75% MINIMUM GRADE. INSTALL 6" CLEANOUTS WHERE SHOWN. VERIFY LOCATION AND ELEVATION OF CONNECTION INTO THE BUILDING WITH THE OWNER PRIOR TO CONSTRUCTION.

- GENERAL LANDSCAPING NOTES FOR ALL SHEETS**
- (L1) ALL CONTRACTORS WISHING TO SUBMIT BIDS FOR THIS LANDSCAPING PROJECT SHALL BE RESPONSIBLE FOR FIELD VERIFYING ALL CONDITIONS.
 - (L2) PROTECT THE IMPROVEMENTS ON SITE AND ON THE ADJOINING PROPERTIES. PROVIDE BARRICADES, COVERINGS OR OTHER TYPE OF PROTECTION AS NECESSARY TO PREVENT DAMAGE AND TO SAFEGUARD AGAINST INJURY TO EXISTING UTILITIES.
 - (L3) DAMAGE THAT OCCURS TO PLANTS DURING TRANSPORTATION AND INSTALLATION WILL BE THE RESPONSIBILITY OF THE LANDSCAPE CONTRACTOR.
 - (L4) ALL LANDSCAPE PLANTINGS ARE TO BE WATERED BY THE LANDSCAPE CONTRACTOR THE SAME DAY THAT THE PLANTING OCCURS. IF WATER IS NOT AVAILABLE AT THE BUILDING, THE LANDSCAPE CONTRACTOR SHALL PROVIDE ALTERNATIVE METHODS FOR WATERING.
 - (L5) SOLITARY TREES DO NOT NEED TO BE EDGED AROUND, HOWEVER ORGANIC WOOD MULCH SHALL BE PLACED AROUND THE TREE IN A MOTTLE RING THAT CONFORMS TO THE DETAIL PROVIDED FOR TREE PLANTINGS.
 - (L6) CONTRACTOR SHALL PROVIDE WRITTEN WARRANTIES CONFIRMING THE FOLLOWING:
FURNISHED TREES GUARANTEED TO LIVE AND REMAIN STRONG, VIGOROUS, AND HEALTHY CONDITION FOR 365 DAYS MINIMUM FROM DATE LANDSCAPE INSTALLATION IS ACCEPTED AS COMPLETED.
 - (L7) LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR WATERING AND CARING FOR ALL PLANT MATERIAL, AND OTHER LANDSCAPING IMPROVEMENTS UNTIL THE DATE OF FINAL INSPECTION AND APPROVAL.

- TOPSOIL NOTES**
- (T1) TOPSOIL IS STOCKPILED ON SITE AND WILL BE PLACED FOR THE LANDSCAPE CONTRACTOR TO SPREAD AND FINISH GRADE. ALL PORTIONS OF THE SITE NOT RECEIVING CONCRETE, CURB & GUTTER OR OTHER IMPROVEMENTS SHALL BE COVERED WITH A MINIMUM OF 6" OF TOPSOIL AND SEEDED ACCORDING TO SPECIFICATIONS.
 - (T2) TOPSOIL SHALL BE PLACED AND SEED AS SOON AS PRACTICAL TO MINIMIZE WIND AND WATER EROSION. BACKFILL BEHIND CURB AND GUTTERS AND SIDEWALK AS SOON AS REASONABLE TO PREVENT STANDING WATER AND PROTECT THE IMPROVEMENTS.

- SEEDING NOTES**
- (S1) CLEAR AND GRUB SITE BEFORE SEEDING ENSURING THAT THE SITE IS IN A SMOOTH CONDITION WITH NO DEBRIS OR ROCKS LARGER THAN 2" IN DIAMETER.
 - (S2) FERTILIZE SOIL DURING THE SEEDING PROCESS USING AN APPROPRIATE APPLICATION PROCESS. FERTILIZER SHALL BE 10-10-10 AND APPLIED AT A RATE OF 4 LBS. PER 1000 SQUARE FEET.
 - (S3) SEED SHALL BE DRILL SEED TO A DEPTH OF 1/4" TO 1/2" AND SHALL BE EVENLY SPREAD. AFTER SEED HAS BEEN SOWN, THE SOIL SHALL BE REPACKED IMMEDIATELY AFTER THE SEED IS APPLIED TO FIRM THE SOIL AROUND THE SEED. NO SEED SHALL BE PLACED ON DAYS WHERE THE WIND IS STRONG ENOUGH TO PREVENT IT FROM BEING PROPERLY IMBEDDED INTO THE SOIL.
 - (S4) SEED MUST SHOW A DENSITY OF 20 TO 30 SEEDLINGS PER SQUARE FOOT BEFORE ACCEPTANCE WILL OCCUR. THE CONTRACTOR SHALL FURNISH AND REPLACE WITHOUT ADDITIONAL COMPENSATION THEREFOR, ANY SEED FOR AREAS THAT HAVE NOT GERMINATED, HAVE DIED, OR ARE DAMAGED TO THE EXTENT THAT REPLACEMENT IS REQUIRED TO CONFORM TO THE REQUIREMENTS OUTLINED ABOVE. THE CONTRACT WARRANTY PERIOD SHALL ALSO APPLY TO THIS ITEM.
 - (S5) CONTRACTOR SHALL BE RESPONSIBLE TO REPAIR ANY EROSION SCARS OR WASHOUTS UNTIL THE DATE THAT FINAL SEED STAND IS ACCEPTED. SEE EROSION CONTROL PLAN FOR EROSION CONTROL METHODS.



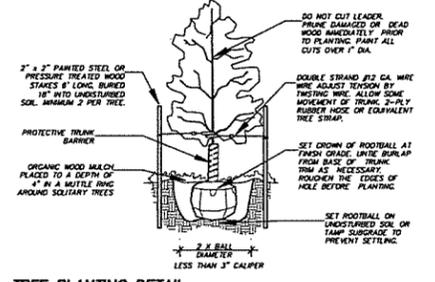
PRELIMINARY-NOT FOR CONSTRUCTION,
RECORDING PURPOSES OR IMPLEMENTATION

APPROVED BY FORESTRY

[Signature]
LANDSCAPE ARCHITECT 3-17-16
TITLE DATE

APPROVED BY PLANNING

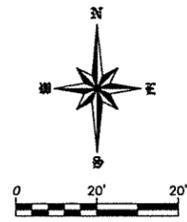
[Signature]
SENIOR PLANNER 02-26-16
TITLE DATE



TREE PLANTING DETAIL
TYPICAL FOR ALL DECIDUOUS, SINGLE-TRUNK, TREES NTS

PLANT PALETTE

SYMBOL	COMMON NAME	SCIENTIFIC NAME	SIZE	QTY.
HL	HONEYLOCUST	Gleditsia triacanthos	1-1/2" Cal.	9



SCALE - 1" = 20'
NAVD 88 DATUM
JANUARY 20, 2016
REVISED: FEBRUARY 25, 2016

WARRANTY / DISCLAIMER
The design represented in these plans are in accordance with established practices of civil engineering. However, the contractor shall be responsible for the accuracy of all data furnished to the engineer and for the safety of the work. The engineer shall not be held responsible for any and all damages which may be occasioned by the contractor's failure to exactly locate and preserve any and all underground utilities.

SAFETY NOTICE TO CONTRACTOR
In accordance with generally accepted construction practices the contractor shall be held responsible for the safety of the work. The contractor shall determine the exact location of all existing utilities before commencing work, and agree to be fully responsible for any and all damages which may be occasioned by the contractor's failure to exactly locate and preserve any and all underground utilities.

NOTICE TO CONTRACTOR
The location of existing underground utilities are shown in an approximate manner only and have not been independently verified by the owner or its representative. The contractor shall determine the exact location of all existing utilities before commencing work, and agree to be fully responsible for any and all damages which may be occasioned by the contractor's failure to exactly locate and preserve any and all underground utilities.

CALL BEFORE YOU DIG
NORTH DAKOTA
UTILITIES UNDERGROUND LOCATION SERVICE
1-800-795-0555

Copyright © 2016 by Swenson, Hagen & Co. All rights reserved. No part of this drawing may be used or reproduced in any form or by any means without the express written permission of Swenson, Hagen & Co.

DATE: 2/25/2016
REVISED PER CITY COMMENTS

SITE PLAN

LOT 1, BLOCK 6, REPLAT OF METRO INDUSTRIAL PARK
BISMARCK, NORTH DAKOTA

SWENSON, HAGEN & COMPANY P.C.
909 Basin Avenue
Bismarck, North Dakota 58501
Phone: (701) 224-2640
Fax: (701) 224-2646

SI & Co.
Surveying
Hydrology
Land Use Planning
Civil Engineering
Landscape & Site Design
Construction Management

DRAWN BY: JR
CHECK BY: JP
DATE: 1-20-2016
FILE DESC:

COMPUTER FILE:
P:\Sec 1 R\Township 138\Range 80\Replat Metro Ind Park\11 06 Site Plan.dwg

SHEET C2.0

SP2016.004